

A dynamic (frequency) method for ...

S/021/62/000/009/007/008
D234/D308

PRESENTED: by Academician F.P. Byelyankin, AS UkrSSR

SUBMITTED: January 26, 1962

X

Card 2/2

BONDARENKO, A.A. (Kiyev)

Direct determination of the damping factor in couplings of
vibrating mechanical systems. Prikl.mekh. 8 no.3:312-316
'62. (MIRA 15:6)

1. Institut mekhaniki AN USSR.
(Vibration)

GALAKA, P.I. [Galaka, P.I.] (Miyu) - GALAKA, P.I. (Miyu);
MILADIN, I.I. (Zigev)

Some dynamic properties of glass-reinforced plastics at high
temperatures. Prikl. mekh. 13 no.5:565-567 '64. (MIRA 17:10)

1. Institut mekhaniki AN URSR.

GALAKA, P.I. [Halaka, P.I.]; BONDARENKO, A.A.; TELALOV, A.I.

Damping properties of vitreoplastics at elevated temperatures.
Dop. AN URSR no.3:300-302 '65.

(MIRA 18:3)

1. Institut mekhaniki AN UkrSSR.

BONDARENKO, A.D.

Investigating the interaction of the shield with a rock cushion
by means of shield modeling. (Exr. trad. Inst. arm. data AN
URSR no.13:48-58 '63 (MIRA 17:7)

BONDARENKO, A.D., inzh.; BEKKER, A.G.; TSAL'MAN, L.B., inzh.

Practices in manufacturing elements of thermally treated St.3
steel. Prom. stroi. 41 no.7:36-39 J1 '64. (MIRA 17:8)

L 60172-65

ACCESSION NR: AP5018230

UR/0348/65/000/007/0052/0052
632.4:634.2

13
B

AUTHOR: Bondarenko, A. 14

TITLE: *Coccomyces hiemalis* in cherries and mazzards

SOURCE: Zashchita rasteniy ot vreditel'ey i bolezney, no. 7, 1965, 52

TOPIC TAGS: *Coccomyces hiemalis* infection, cherry, mazzards, coccomycosis, orchard spraying, fungicide 14

ABSTRACT: *Coccomyces hiemalis* was first observed in August of 1960 in the nursery of the "Pobeda" sovkhos ("Victory" State Farm) in the Brichanskiy rayon of Moldavia. During the subsequent years, the disease spread to other regions so that in 1964 it was observed in the nurseries of every Moldavian district, especially on mazzard cherries. The article reports data on the degree of infection and damage and concludes by stating that a preparation made of 0.3% dichlone (Phygon), 0.3 and 0.5% trimangol, 0.5% nokmat, 0.5% captan, 0.4% zineb, 0.1% tsiram, and 1% Bordeaux mixture proved very effective against the disease.

Card 1/2

I 60172-65

ACCESSION NR: AP5018230

ASSOCIATION: Moldavskiy filial VIZR, Kishinev (Moldavian Branch, VIZR)

SUBMITTED: 00

ENCL: 00

SUB CODE: LS, GO

NO REF SOV: 000

OTHER: 000

dm
Card

2/2

Rapid Manual Welding Using an Ultra-Short Arc and the Resulting Saving in Electrical Energy. (In Russian.) A. D. Bondarenko. *Promyshlennaya Energetika* (Industrial Power); v. 4, Oct. 1947, p. 1-5.

The essential difference between the method described and usual practice is the very thickly coated electrode used. This coating serves both as an insulator between the core of the electrode and the weld; and forms a shield between the end of the coating and the core on melting. Describes industrial application with all necessary data and compares results with those obtained by means of other types of arc welding.

COMMON ELEMENTS										COMMON VARIABILITY MODE									
MATERIALS MODE										PROCESS AND PROPERTIES INDEX									
22-291. Rapid Manual Welding With Deep Penetration. A. S. Chesnokov and A. D. Bondaryenko. <i>Antogennoe Delo (Welding)</i>, no. 4, 1947, p. 13-17. (In Russian.) The technique of welding and the results obtained from a new method of manual electric welding using an ultra-short arc resulting in very deep heat penetration.										22-291. Rapid Manual Welding With Deep Penetration. A. S. Chesnokov and A. D. Bondaryenko. <i>Antogennoe Delo (Welding)</i>, no. 4, 1947, p. 13-17. (In Russian.) The technique of welding and the results obtained from a new method of manual electric welding using an ultra-short arc resulting in very deep heat penetration.									
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION										22-291. Rapid Manual Welding With Deep Penetration. A. S. Chesnokov and A. D. Bondaryenko. <i>Antogennoe Delo (Welding)</i>, no. 4, 1947, p. 13-17. (In Russian.)									
22-291. Rapid Manual Welding With Deep Penetration. A. S. Chesnokov and A. D. Bondaryenko. <i>Antogennoe Delo (Welding)</i>, no. 4, 1947, p. 13-17. (In Russian.)										22-291. Rapid Manual Welding With Deep Penetration. A. S. Chesnokov and A. D. Bondaryenko. <i>Antogennoe Delo (Welding)</i>, no. 4, 1947, p. 13-17. (In Russian.)									

(Inu) BONDARENKO

HA 37124

USSR/Welding, Arc
Welding - Methods

Jul 1947

"Fast Arc-Welding of Molding Seams with Deep
Penetration to the Roots of the Seams,"
Bondarenko, Chesnovova, 1 p

"Vestnik Mashinostroyeniya" No 7

The authors have carried out penetration to
3.5 to 5 millimeters with short arcs at the
Central Scientific and Research Laboratory,
Designing Steel Construction Trust, Ministry of
Construction. At Dept 80, MSPTI, Dnepropetrovsk
Factory, up to 21 minutes were saved in an hour,
in addition to lessening expenditure of
electrodes and electrical energy.

17794

BONDARENKO, A. D.

USSR/Engineering
Welding, Arc
Welding - Methods

Jun 48

FA 6/49T17
"High Speed Manual Welding With a Very Short Arc,"
A. D. Bondarenko, A. S. Chesnokov, Tsinits of the
Proektstat; Konstruktsiya Trust, 2 p

"Prom Energet" No 6

Suggestion received only a consolation prize in 1946
All-Union Competition, but in 1947 it came into wide
use. Inventors submitted additional data and won
first prize in 1947 contest. Advantages are: (1)
high quality of weld, (2) speed, (3) usability by

6/49T17

USSR/Engineering (Contd)

Jun 48

semiskilled personnel, (4) economy of power and
electrodes. Described by A. D. Bondarenko in
"Prom Energet No 10," 1947.

6/49T17

BONDARENKO, A. D., ENCR

PA 61/15115

USSR/Electricity
Electric Power
Awards

Jan 49

"The All-Union Competition for Economy in Electric
and Thermal Power" 2 3/4 pp

"Sbor Rukovod Mater 1 Konsul' po Stroi" No 1

For best suggestions, three first prizes of 15,000
rubles are awarded, five second prizes of 10,000,
ten third prizes of 5,000, 25 fourth prizes of 2,000,
and 40 fifth prizes of 1,000 rubles. First prize in
1947 was won by Eng A. D. Bondarenko and A. S.
Chesnokov (Proyektstal'konstruksiya Trust). Other
prize-winning suggestions are cited.

61/49T19

GORBUNOV, K.V.; BONDARENKO, A.D.

Honey-yielding zones of the Volga Delta. Bot.zhur. 38 no.4:582-584 J1-Ag '53.
(MLRA 6:9)

1. Astrakhanskiy Gosudarstvennyy zapovednik.
(Volga Delta--Honey plants) (Honey plants--Volga Delta)

KALABUKHOV, N.I.; BONDARENKO, A.D.

Ascorbic acid and tocopherol content in *Meriones meridianus* Pall.
Ukr. biokhim. zhur. 37 no.2:260-268 '65.

(MIRA 18:6)

1. Ekologo-fiziologicheskaya laboratoriya Vsesoyuznogo nauchno-
issledovatel'skogo protivochumnogo instituta "Mikrob", Astrakhan'.

BONDARENKO, A.D.

Possibility of using the shield covers and units in the Donets
Basin which are being used in the Kuznetsk Basin. Trudy Inst.
gor, dela AN URSR no.11:22-26 '62. (MIRA 16:2)
(Donets Basin—Mine timbering—Equipment and supplies)

BONDARENKO, A. F.

Caspian Sea - Sprats

Sprat fishing on the Caspian. Ryb. khoz. 28 no. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1952, Unclassified.
2

1. BONDARENKO, A.F.
2. USSR (600)
4. Leningrad Province - Fisheries
7. For further improving the fishing industry in Leningrad Province. Ryb khoz No. 12 1952

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

ARTEN'YEV, Yu.N., kandidat tekhnicheskikh nauk; ALEKSEYEV, I.A., inzhener; ASTVATSATUROV, G.G., inzhener; BISNOVATYY, S.I., inzhener; BONDARENKO, A.F., inzhener; GURAL'NIK, Ye.L., inzhener; GORBUNOV, M.F., inzhener; ZILATKOVSKIY, A.P., kandidat tekhnicheskikh nauk; KATTS, N.V., inzhener; KITAYEV, A.S., inzhener; KOZLOV, A.M., inzhener; LEONOV, P.T., inzhener; LIVSHITS, L.G., kandidat tekhnicheskikh nauk; LIBERMAN, A.R., inzhener; LINNIK, Ye.M., inzhener; LUKANOV, M.A., inzhener; MOROZOV, S.A., inzhener; POGORELYY, I.P., kandidat tekhnicheskikh nauk; PETROV, S.A., kandidat tekhnicheskikh nauk; PYATETSKIY, B.G., inzhener; RABOCHIIY, L.G., kandidat tekhnicheskikh nauk; SELIVANOV, A.I., kandidat tekhnicheskikh nauk; FERBERG, B.S., kandidat tekhnicheskikh nauk; GHISTYAKOV, V.D., inzhener; CHUNIKHIN, V.M., inzhener; SHIRYAYEV, A.I., inzhener; SHCHUPAK, A.D., inzhener; KUCHUMOV, P.S., inzhener, redaktor; PETROV, S.A.; PESTRYAKOV, A.I., redaktor; BALLOD, A.I., tekhnicheskii redaktor.

[Handbook of equipment for repairing tractors and agricultural machinery] Spravochnik po oborudovaniyu dlia remonta traktorov i sel'skokhoziaistvennykh mashin. Moskva, Gos. izd-vo selkhoz. lit-ry, 1954. 646 p. (MLRA 7:11)

(Tractors--Repairing) (Agricultural machinery--Maintenance and repair)

DECEMBER 1951

Young innovators at the Kharkov Transportation Machinery Plant.
Izobr. v SSSR 2 no.9:38 S '57. (MIRA 10:10)

L.Nachal'nik Byuro sodeystviya ratsionalizatsii i izobretatel'stvu
Khar'kovskogo zavoda transportnogo mashinostroyeniya.
(Kharkov--Efficiency, Industrial)

BONDARENKO, A.G.

Measurement of labor productivity in the distilling industries.
Ferm. i spirt. prom. 30 no. 35-38 '64. (MIRA 18:2)

1. Moskovskiy tekhnologicheskii institut pishchevoy promyshlennosti.

BONDARENKO, A.G.

Wages of workers in charge of the maintenance and repair of equipment.
Spir. prom. 26 no.8:33-34 '60. (MIRA 13:11)
(Distilling industries--Equipment and supplies)

JOHNSON, A.G.; ROBINSON, I.G.

Diffusion in binary gas systems at high pressures. Can. J. Chem. 9
no.2:50-54 1964. (NIA 17:12)

ACC NR: AP6035819

SOURCE CODE: UR/0413/66/000/020/0019/0019

INVENTOR: Klimkovskiy, B. M.; Tkachenko, A. S.; Bondarenko, A. G.; Stepanov, I. V.

ORG: None

TITLE: A device for balancing forces of inertia. Class 7, No. 186952

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 19

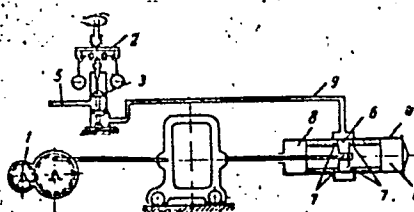
TOPIC TAGS: rolling mill, cold rolling, pneumatic servomechanism

ABSTRACT: This Author's Certificate introduces: 1. A device for balancing the forces of inertia generated during reciprocating motion of the stand in a cold-rolling tube mill. The unit contains compensating pneumatic cylinders with pistons. The initial pressure is automatically controlled with respect to the rate of rolling. The installation is equipped with a centrifugal pressure regulator connected to the drive shaft of the stand. The regulator valve connects the compensating cylinders to the air line. 2. A modification of this device in which the make-up feed to the compensating cylinders is simplified and made more reliable by elongating the piston slides which act as the make-up valve and equipping them with ports which connect the cylinder cavities to the make-up line.

Card 1/2

UDC: 621.771.06-755-589.4

ACC NR: AP6035819



1—drive shaft of the stand; 2—centrifugal pressure regulator; 3—valve; 4—compensating cylinders; 5—air line; 6—piston slide; 7—ports; 8—cylinder cavities; 9—make-up line

SUB CODE: 13/ SUBM DATE: 04Sep65

Card 2/2

BONDARENKO, A.I., kand.tekhn.nauk

Road component in the cost of automotive transportation. Trudy
MIRI no.16:46-52 '61. (MIRA 14:12)
(Transportation, Automotive--Cost of operation)

RATUSHNYAK, N.S.; BONDARENKO, A.I.

Some problems concerning the geological structure and development
of the Berezhanskoye gas-condensate field. Gaz. delo no.6:3-0 '65.
(MIRA 18:8)

1. Krasnodarskiy filial Vsesoyuznogo neftegazovogo nauchno-issledovatel'-
skogo instituta.

9

CPA

PROCESSING AND PROPERTIES INDEX

The welding of flaws in castings from aluminum bronze
A. I. Bondarenko. *Akum. Mashinostroyeniye* 1939, No. 3,
29-31. *Khim. Referat. Zhur.* 1939, No. 7, 137. In the
production of parts for chem. machines, a highly corrosion-
resistant alloy of Al bronze (Al 11%) is used. Flaws in
the castings can be removed by elec.-arc welding. The
high thermal cond. of the alloy and the presence of the
oxide film (Al_2O_3) on the surface of the metal offer con-
siderable difficulties for welding. The "Bol'shevik" plant
uses with success a 0.5-mm. electrode coating of cryolite
35, KCl 50, NaCl 12.5 and charcoal 2.5%, with a binder
of waterglass.
W. R. Henn

COMMON ELEMENTS

ASME-SLA METALLURGICAL LITERATURE CLASSIFICATION

EXPLANATION OF SYMBOLS

SYMBOLS FOR ONE JOB

RELATIONS

EXPLANATION OF SYMBOLS

SYMBOLS FOR ONE JOB

RELATIONS

8

9

CA

Electric arc welding of silumin. A. I. Bondarenko. *Atlogennoe Delo* 1930, No. 5, 10-12; *Khim. Referat. Zhur.* 1930, No. 9, 124. Silumin contg. 11.6% of Si was successfully welded by the method developed by the "Bol'shevik" plant. Compos. of the flux and the tech. conditions and the prepn. of silumin for welding are given in the original (not in the Russian abstract).
W. R. H. m

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

1930-1939

1940-1949

1950-1959

1960-1969

1970-1979

1980-1989

1990-1999

2000-2009

2010-2019

2020-2029

2030-2039

2040-2049

2050-2059

2060-2069

2070-2079

2080-2089

2090-2099

2100-2109

2110-2119

2120-2129

2130-2139

2140-2149

2150-2159

2160-2169

2170-2179

2180-2189

2190-2199

2200-2209

2210-2219

2220-2229

2230-2239

2240-2249

2250-2259

2260-2269

2270-2279

2280-2289

2290-2299

2300-2309

2310-2319

2320-2329

2330-2339

2340-2349

2350-2359

2360-2369

2370-2379

2380-2389

2390-2399

2400-2409

2410-2419

2420-2429

2430-2439

2440-2449

2450-2459

2460-2469

2470-2479

2480-2489

2490-2499

2500-2509

2510-2519

2520-2529

2530-2539

2540-2549

2550-2559

2560-2569

2570-2579

2580-2589

2590-2599

2600-2609

2610-2619

2620-2629

2630-2639

2640-2649

2650-2659

2660-2669

2670-2679

2680-2689

2690-2699

2700-2709

2710-2719

2720-2729

2730-2739

2740-2749

2750-2759

2760-2769

2770-2779

2780-2789

2790-2799

2800-2809

2810-2819

2820-2829

2830-2839

2840-2849

2850-2859

2860-2869

2870-2879

2880-2889

2890-2899

2900-2909

2910-2919

2920-2929

2930-2939

2940-2949

2950-2959

2960-2969

2970-2979

2980-2989

2990-2999

3000-3009

3010-3019

3020-3029

3030-3039

3040-3049

3050-3059

3060-3069

3070-3079

3080-3089

3090-3099

3100-3109

3110-3119

3120-3129

3130-3139

3140-3149

3150-3159

3160-3169

3170-3179

3180-3189

3190-3199

3200-3209

3210-3219

3220-3229

3230-3239

3240-3249

3250-3259

3260-3269

3270-3279

3280-3289

3290-3299

3300-3309

3310-3319

3320-3329

3330-3339

3340-3349

3350-3359

3360-3369

3370-3379

3380-3389

3390-3399

3400-3409

3410-3419

3420-3429

3430-3439

3440-3449

3450-3459

3460-3469

3470-3479

3480-3489

3490-3499

3500-3509

3510-3519

3520-3529

3530-3539

3540-3549

3550-3559

3560-3569

3570-3579

3580-3589

3590-3599

3600-3609

3610-3619

3620-3629

3630-3639

3640-3649

3650-3659

3660-3669

3670-3679

3680-3689

3690-3699

3700-3709

3710-3719

3720-3729

3730-3739

3740-3749

3750-3759

3760-3769

3770-3779

3780-3789

3790-3799

3800-3809

3810-3819

3820-3829

3830-3839

3840-3849

3850-3859

3860-3869

3870-3879

3880-3889

3890-3899

3900-3909

3910-3919

3920-3929

3930-3939

3940-3949

3950-3959

3960-3969

3970-3979

3980-3989

3990-3999

4000-4009

4010-4019

4020-4029

4030-4039

4040-4049

4050-4059

4060-4069

4070-4079

4080-4089

4090-4099

4100-4109

4110-4119

4120-4129

4130-4139

4140-4149

4150-4159

4160-4169

4170-4179

4180-4189

4190-4199

4200-4209

4210-4219

4220-4229

4230-4239

4240-4249

4250-4259

4260-4269

4270-4279

4280-4289

4290-4299

4300-4309

4310-4319

4320-4329

4330-4339

4340-4349

4350-4359

4360-4369

4370-4379

4380-4389

4390-4399

4400-4409

4410-4419

4420-4429

4430-4439

4440-4449

4450-4459

4460-4469

4470-4479

4480-4489

4490-4499

4500-4509

4510-4519

4520-4529

4530-4539

4540-4549

4550-4559

4560-4569

4570-4579

4580-4589

4590-4599

4600-4609

4610-4619

4620-4629

4630-4639

4640-4649

4650-4659

4660-4669

4670-4679

4680-4689

4690-4699

4700-4709

4710-4719

4720-4729

4730-4739

4740-4749

4750-4759

4760-4769

4770-4779

4780-4789

4790-4799

4800-4809

4810-4819

4820-4829

4830-4839

4840-4849

4850-4859

4860-4869

4870-4879

4880-4889

4890-4899

4900-4909

4910-4919

4920-4929

4930-4939

4940-4949

4950-4959

4960-4969

4970-4979

4980-4989

4990-4999

5000-5009

5010-5019

5020-5029

5030-5039

5040-5049

5050-5059

5060-5069

5070-5079

5080-5089

5090-5099

5100-5109

5110-5119

5120-5129

5130-5139

5140-5149

5150-5159

5160-5169

5170-5179

5180-5189

5190-5199

5200-5209

5210-5219

5220-5229

5230-5239

5240-5249

5250-5259

5260-5269

5270-5279

5280-5289

5290-5299

5300-5309

5310-5319

5320-5329

5330-5339

5340-5349

5350-5359

5360-5369

5370-5379

5380-5389

5390-5399

5400-5409

5410-5419

5420-5429

5430-5439

5440-5449

5450-5459

5460-5469

5470-5479

5480-5489

5490-5499

5500-5509

5510-5519

5520-5529

5530-5539

5540-5549

5550-5559

5560-5569

5570-5579

5580-5589

5590-5599

5600-5609

5610-5619

5620-5629

5630-5639

5640-5649

5650-5659

5660-5669

5670-5679

5680-5689

5690-5699

5700-5709

5710-5719

5720-5729

5730-5739

5740-5749

5750-5759

5760-5769

5770-5779

5780-5789

5790-5799

5800-5809

5810-5819

5820-5829

5830-5839

5840-5849

5850-5859

5860-5869

5870-5879

5880-5889

5890-5899

5900-5909

5910-5919

5920-5929

5930-5939

5940-5949

5950-5959

5960-5969

5970-5979

5980-5989

5990-5999

6000-6009

6010-6019

6020-6029

6030-6039

6040-6049

6050-6059

6060-6069

6070-6079

6080-6089

6090-6099

6100-6109

6110-6119

6120-6129

6130-6139

6140-6149

6150-6159

6160-6169

6170-6179

6180-6189

6190-6199

6200-6209

6210-6219

6220-6229

6230-6239

6240-6249

6250-6259

6260-6269

6270-6279

6280-6289

6290-6299

6300-6309

6310-6319

6320-6329

6330-6339

6340-6349

6350-6359

6360-6369

6370-6379

6380-6389

6390-6399

6400-6409

6410-6419

6420-6429

6430-6439

6440-6449

6450-6459

6460-6469

6470-6479

6480-6489

6490-6499

6500-6509

6510-6519

6520-6529

6530-6539

6540-6549

6550-6559

6560-6569

6570-6579

6580-6589

6590-6599

6600-6609

6610-6619

6620-6629

6630-6639

6640-6649

6650-6659

6660-6669

6670-6679

6680-6689

6690-6699

6700-6709

6710-6719

6720-6729

6730-6739

6740-6749

6750-6759

6760-6769

6770-6779

6780-6789

6790-6799

6800-6809

6810-6819

6820-6829

6830-6839

6840-6849

6850-6859

6860-6869

6870-6879

6880-6889

6890-6899

6900-6909

6910-6919

6920-6929

6930-6939

6940-6949

6950-6959

6960-6969

6970-6979

6980-6989

6990-6999

7000-7009

7010-7019

7020-7029

7030-7039

7040-7049

7050-7059

7060-7069

7070-7079

7080-7089

7090-7099

7100-7109

7110-7119

7120-7129

7130-7139

7140-7149

7150-7159

7160-7169

7170-7179

7180-7189

7190-7199

7200-7209

7210-7219

7220-7229

7230-7239

7240-7249

7250-7259

7260-7269

7270-7279

7280-7289

7290-7299

7300-7309

7310-7319

7320-7329

7330-7339

7340-7349

7350-7359

7360-7369

7370-7379

7380-7389

7390-7399

7400-7409

7410-7419

7420-7429

7430-7439

7440-7449

7450-7459

7460-7469

7470-7479

7480-7489

7490-7499

7500-7509

7510-7519

7520-7529

7530-7539

7540-7549

7550-7559

7560-7569

7570-7579

7580-7589

7590-7599

7600-7609

7610-7619

7620-7629

7630-7639

7640-7649

7650-7659

7660-7669

7670-7679

7680-7689

7690-7699

7700-7709

7710-7719

7720-7729

7730-7739

7740-7749

7750-7759

7760-7769

7770-7779

7780-7789

7790-7799

7800-7809

7810-7819

7820-7829

7830-7839

7840-7849

7850-7859

7860-7869

7870-7879

7880-7889

7890-7899

7900-7909

7910-7919

7920-7929

7930-7939

7940-7949

7950-7959

7960-7969

7970-7979

7980-7989

7990-7999

8000-8009

8010-8019

8020-8029

8030-8039

8040-8049

8050-8059

8060-8069

8070-8079

8080-8089

8090-8099

8100-8109

8110-8119

8120-8129

8130-8139

8140-8149

8150-8159

8160-8169

8170-8179

8180-8189

8190-8199

8200-8209

8210-8219

8220-8229

8230-8239

8240-8249

8250-8259

8260-8269

8270-8279

8280-8289

8290-8299

8300-8309

8310-8319

8320-8329

8330-8339

8340-8349

8350-8359

8360-8369

8370-8379

8380-8389

8390-8399

8400-8409

8410-8419

8420-8429

8430-8439

8440-8449

8450-8459

8460-8469

8470-8479

8480-8489

8490-8499

8500-8509

8510-8519

8520-8529

8530-8539

8540-8549

8550-8559

8560-8569

8570-8579

8580-8589

8590-8599

8600-8609

8610-8619

8620-8629

8630-8639

8640-8649

8650-8659

8660-8669

8670-8679

8680-8689

8690-8699

8700-8709

8710-8719

8720-8729

8730-8739

8740-8749

8750-8759

8760-8769

8770-8779

8780-8789

8790-8799

8800-8809

8810-8819

8820-8829

8830-8839

8840-8849

8850-8859

8860-8869

8870-8879

8880-8889

8890-8899

8900-8909

8910-8919

8920-8929

8930-8939

8940-8949

8950-8959

8960-8969

8970-8979

8980-8989

8990-8999

9000-9009

9010-9019

9020-9029

9030-9039

9040-9049

9050-9059

9060-9069

9070-9079

9080-9089

9090-9099

9100-9109

9110-9119

9120-9129

9130-9139

9140-9149

9150-9159

9160-9169

9170-9179

9180-9189

9190-9199

9200-9209

9210-9219

9220-9229

9230-9239

9240-9249

9250-9259

9260-9269

9270-9279

9280-9289

9290-9299

9300-9309

9310-9319

9320-9329

9330-9339

9340-9349

9350-9359

9360-9369

9370-9379

9380-9389

9390-9399

9400-9409

9410-9419

9420-9429

9430-9439

9440-9449

9450-9459

9460-9469

9470-9479

9480-9489

9490-9499

9500-9509

9510-9519

9520-9529

9530-9539

9540-9549

9550-9559

9560-9569

9570-9579

9580-9589

9590-9599

9600-9609

9610-9619

9620-9629

9630-9639

9640-9649

9650-9659

9660-9669

9670-9679

9680-9689

9690-9699

9700-9709

9710-9719

9720-9729

9730-9739

9740-9749

9750-9759

9760-9769

9770-9779

9780-9789

9790-9799

9800-9809

9810-9819

9820-9829

9830-9839

9840-9849

9850-9859

9860-9869

9870-9879

9880-9889

9890-9899

9900-9909

9910-9919

9920-9929

9930-9939

9940-9949

9950-9959

9960

BONDARENKO, A. I.

"Activated Concrete From Granulated Blast Furnace Slags of the Ukrainian SSR as a Road Construction Material." Cand Tech Sci, Moscow Automobile Highway Inst imeni V. M. Molotov, 16 Feb 54. Dissertation (Vechernyaya Moskva Moscow, 5 Feb 54)

SO: SUM 186, Aug 19 1954

BONDARENKO, A.I.; GRIGORENKO, I.A.

How we achieve an overfulfillment of norms. Rech.transp.14 no.10:
9-10 0 '55. (MLRA 9:1)

(Loading and unloading)

✓ 591. EFFECT OF ROAD SURFACING CONDITION ON VEHICLE FUEL CONSUMPTION.
 Bondarenko, A.I. (Avton. Dzerzhi Motor Roads, Moscow), 1955, vol. 16, (6),
 14-16. Descriptions are given of tests carried out with a ZIS-150 lorry in
 the course of which the vehicle covered a distance of some 23,000 miles on
 local roads. The test sections selected had no gradients or very small ones
 and the road riding qualities resembled each other as closely as possible.
 The following types of surfacing were tested: bitumen-stabilized granite,
 tar-stabilized soil, soil cement, mechanically stabilized soil and earth
 roads. The control section was a stabilized granite aggregate. During the
 tests the vehicle travelled at speeds of 5, 12, 18, 24 and 30 miles/h. Fuel
 consumption was measured with the VMIAT apparatus and surface regularity by
 means of the KADI bump meter. Results are presented in tables and graphs
 and show (1) comparative fuel consumption figures on the 6 different test
 sections, (2) dependence of fuel consumption on type of surfacing and speed
 of vehicle, (3) dependence of fuel consumption on condition of surfacing and
 speed of travel, and (4) dependence of fuel consumption on type of surfacing
 and speed of travel. It is thought that the basic factors affecting fuel
 consumption are the rigidity of the road surfacing and its mechanical
 properties which determine the magnitude of its resistance to rolling. The
 effect of road surface irregularities is only apparent when these have
 developed to an extent which is not permitted under normal road operating
 conditions. R.S.

BONDARENKO, A.I., kandidat tekhnicheskikh nauk.

Surface treatment prolongs the service of light black surfaces.
Avt.dor. 19 no.1:21-22 Ja '56. (MLRA 9:5)
(Ukraine--Pavements)

Bondarenko, A.I.

BONDARENKO, A.I., kand.tekhn.nauk.

Strength of road surfaces with pavements made of soil treated
with asphalt or tar. Avt.dor. 20 no.6:7-9 Je '57. (MIRA 10:10)
(Ukraine--Pavements)

БОНДАРЕНКО А.И.

BONDARENKO, A.I., kandidat tekhnicheskikh nauk.

Lay bituminous-soil beds in building roads in Northern Kazakhstan.
Avt.dor. 20 no.9(179):10-11 S '57. (MIRA 10:10)
(Kazakhstan--Road construction)

BONDARENKO, Andrey Ivanovich, kand.tekhn.nauk; IYEVLEVA, T.A., red.;
ZUYEVA, N.K., tekhn.red.

[Operational characteristics of new types of road covers
in the Ukraine] Eksploatatsionnye kharakteristiki novykh
tipov dorozhnykh pokrytii Ukrainakoi SSR. Moskva, Nauchno-
tekhn.isd-vo avtotransp.lit-ry, 1958. 62 p. (MIRA 12:6)
(Ukraine--Road construction)

BONDARENKO, A.I.

TERENETSKIY, K.S., prof.; BONDARENKO, A.I., kand. tekhn. nauk.

Experience in using soft limestone for road construction in
southern provinces of the Ukraine. Avt.dor. 21 no.3:4-6 **Mr** '58.
(Ukraine--Road construction) (Limestone) (MIRA 11:3)

BONDARENKO, A.I., kand.tekhn.nauk

Maintenance of road surfaces built on a base of compacted soil.
Avt.dor. 22 no.6:4-5 Je '59. (MIRA 12:9)
(Roads--Maintenance and repair)

BONDARENKO, A.I., kand. tekhn. nauk

Length of time between repairs of the main types of pavements in
the Ukraine. Avt. dor. 22 no.10:6-7 0 '59. (MIRA 13:2)
(Ukraine--Roads--Maintenance and repair)

BONDARENKO, A.I., kand.tekhn.nauk

Technical and economic indices of using soft rock materials
in road construction in the Ukrainian S.S.R. Avt.dor. 23
no.2:5-7 F '60. (MIRA 13:5)
(Ukraine--Road materials)

BONDARENKO, A.I.; OLEKHNOVICH, V.A.

Moisture and temperature conditions and the stability of roadbeds.
Avt.dor. 22 [i.e.23] no.9:6-8 S '60. (MIRA 13:9)
(Soil moisture) (Road construction)

BONDARENKO, A.I., kand.tekhn.nauk; BONDARENKO, L.N., inzh.

Repairing pavements under winter conditions. Avt. dor. 23 no.10:19
O '60. (MIRA 13:10)
(Pavements, Concrete--Maintenance and repair)

BONDARENKO, Andrey Ivanovich, kand. tekhn. nauk; TELEGIN, M.Ya., red.;
ZUBKOVA, M.S., red.izd-va; NIKOLAYEVA, L.N., tekhn. red.

[Technical and economic indices of the service life of highways in Ukraine] Tekhniko-ekonomicheskie pokazateli sluzhby avtomobil'nykh dorog Ukrainy. Moskva, Nauchno-tekhn.izd-vo M.-va avtomobil'nogo transp. i shosseinykh dorog RSFSR, 1961. 92 p.
(MIRA 15:1)
(Ukraine--Roads) (Ukraine--Transportation, Automotive)

BONDARENKO, A.I.; DUBINSKIY, A.A., kand.med.nauk; SOKOLOVA, V.Ye., kand.
med.nauk; KHADZHAY, Ya.I., kand.med.nauk

Pharmacotherapeutic investigation of the preparation, "kordin."
Vrach. delo no.4:32-36 Ap '61. (MIRA 14:6)

1. Laboratory farmakologii Khar'kovskogo nauchno-issledovatel'skogo
khimiko-farmatsevticheskogo instituta i klinika gospi'tal'noy terapii
lechebnogo fakul'teta (zav. - R.I.Sharlay [deceased]) Khar'kovskogo
meditsinskogo instituta.
(VASOMOTOR DRUGS) (CARDIAC GLYCOSIDES)

89996

S/190/61/003/003/013/014
B101/B204

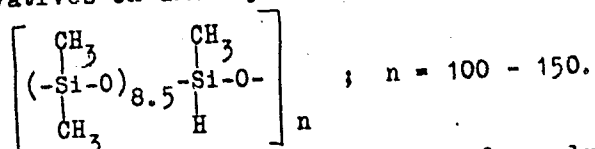
15.8116

AUTHORS: Reykhsfel'd, V. O., Bondarenko, A. I.

TITLE: Accumulation of non-saturated compounds on dimethyl-methyl-polysiloxanes

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 3, no. 3, 1961, 487

TEXT: The present "Letter to the Editor" reports on the accumulation of vinyl derivatives on dimethyl-methyl-polysiloxane of the general formula



The polysiloxanes were obtained by means of copolymerization of octamethylcyclotetrasiloxane with tetramethylcyclotetrasiloxane. Interaction of this polymer with methylmethacrylate in the presence of 0.1 N H_2PtCl_6 , dissolved in isopropanol at 95°C after 3 hr resulted in a highly hydrophobic polymer, which is soluble in acetone, benzene and chloroform.
Card 1/2

BONDARENKO, A.I., kand.tekhn.nauk

Effect of road conditions on the magnitude of the factor of tractive resistance. Avt. prom. no.5:19-21 My '61. (MIRA 14:3)

1. Ukrainskiy ~~dozashno~~-transportnyy nauchno-issledovatel'skiy institut.
(Automobiles—Testing)

BONDARENKO, A.I.; kand.tekhn.nauk; KNYAZYUK, K.A.

Improving the design and techniques of building surfaces of
compacted soil. Avt.dor. 24 no.6:12-13 Je '61. (MIRA 14:7)
(Roads, Earth) (Soil stabilization)

BONDARENKO, A.I., kand.tekhn.nauk; OLEKHANOVICH, V.A., kand.tekhn.nauk

Stability of earth roadbed and weather and climate conditions.

Avt. dor. 25 no.2:18 F '62.

(MIRA 15:2)

(Roads)

POLEVOY, T.N.; BONDARENKO, A.I.,

Flourishing of horticulture in Moldavia. Zashch. rast. ot vred. (MIRA 16:1)
i bol. 2 no.6:23-25 N-D '57.

1. Nachal'nik Upravleniya zashchity rasteniy Ministerstva sel'skogo
khozyaystva Moldavskoy SSR (for Polevoy). 2. Starshiy agronom
Upravleniya zashchity rasteniy Ministerstva sel'skogo khozyaystva
Moldavskoy SSR (for Bondarenko).
(Moldavia--Fruit--Diseases and pests)

BONDARENKO, A.K.

"Erfahrungen bei dem Einsatz elektronischer Rechenmaschinen im Maschinenbau der UdSSR Diskussionen sind im Anschluß an jeden Vortrag vorgesehen."

Report presented at the 10th Anniversary Celebration of The Institute of Technology, Karl-Marx-Stadt, East Germany, 8-12 Oct 63.

BONDARENKO, A.K.

KAMENITSER, S.Ye.; VESELKOV, F.S.; GAYDUKOV, Yu.A.; KONTOROVICH, V.G.;
PISHCHULIN, G.A.; SAVKIN, A.M.; TOLSTYKH, A.S.; FASTOVSKIY, A.S.;
BONDARENKO, A.K., inzh., retsenzent; LETENKO, V.A., kand.ekon.
nauk, red.; EL'KIND, V.D., tekhn.red.

[Even work flow in machinery plants] Ravnomernaya rabota mashino-
stroitel'nykh zavodov. Pod rukovodstvom S.E.Kamenitsera. Moskva,
Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1958. 171 p.
(Machinery industry) (MIRA 12:4)

BONDARENKO, A.K., inzh.; RYTSLIN, A.M., inzh.; KHAYTUN, E.I., inzh.; BATHON,
I.S., inzh.; KUZNETSOV, A.N., inzh.

Bus-tie breakers of step-down substations. Elek. sta. 29 no.2:90-92
7 '58. (MIRA 11:3)

(Electric circuit breakers)

BOGATYREV, Vladimir Nikolayevich; BONDARENKO, A.K., inzh., retsenzent;
PROSKURYAKOV, A.V., kand. tekhn. nauk, red.; ANTIPOV, V.P.,
red. izd-va; DOBRITSINA, R., tekhn. red.

[Selection of an economic process for machining parts in
machinery plants] Vybór ekonomicheskogo protsessá mekhaní-
cheskoi obrabotki detalei na mashinostroitel'nykh zavodakh.
Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry,
1961. 71 p. (MIRA 15:3)

(Machinery industry)

BONDARENKO, A.K., inz.

Basic trends in complex organization, mechanization, and automation
of production management. Przegl techn no.35:10,11 2 S '62.

ACCESSION NR: AR4015485

S/0169/63/000/012/V014/V014

SOURCE: RZh. Geofizika, Abs. 12V85

AUTHOR: Bondarenko, A. L.

TITLE: On the problem of recording periodic and aperiodic sea level fluctuations with a tide meter

CITED SOURCE: Tr. Morsk. gidrofiz. in-ta AN USSR, v. 28, 1963, 59-64

TOPIC TAGS: sea level, sea level fluctuations, tide meter, periodic fluctuations, aperiodic fluctuations, wave pressure, wave height

TRANSLATION: Computations are presented which permit determination of values of periodic and aperiodic sea level fluctuations according to oscillations of the water in a tide meter well. A method is also described for calculating the dimensions of the intake opening, during which, with a knowledge of the known sea level fluctuations, the oscillations of the level of the water in the instrument's well would be determined. Equations are derived which relate the height of a wave on the sea and in the well. Since the length of the wave creating the wave pressure at the depth of the intake opening in the pipe is great in comparison with the

Card 1/2

ACCESSION NR: AR4015485

depth at which the opening is located, then it can be assumed that the difference in the pressure of the column of water in the sea and in the well is approximately equal to the height of the wave creating this pressure. Computation of the dimensions of the intake opening for fixed parameters of waves at sea and in the well are made by the method of successive approximations. Assigning a succession of dimensions and shapes to the intake opening of the connecting pipe using special equations the height of the water in the sea is obtained. B. Zalagin.

DATE ACQ: 09Jan64

SUB CODE: AS, PH

ENCL: 00

Card 2/2

ACCESSION NR: AT4001800

S/2518/63/028/000/0059/0064

AUTHOR: Bondarenko, A. L.

TITLE: The problems of recording periodic and nonperiodic fluctuations in sea level with a mareograph

SOURCE: AN SSSR. Morskoy gidrofizicheskiy institut. Trudy*, v. 28, 1963. Fizika morya, 59-64

TOPIC TAGS: hydrophysics, tide gage, mareograph, sea level fluctuation

ABSTRACT: The report presents calculations enabling one to determine the magnitude of the periodic and aperiodic fluctuations in sea level from water level fluctuations in the column of a modified tide gage. Short-period sea waves, even when of considerable height, cause only small fluctuations in the gage, whereas low long period waves cause level fluctuations in the gage which are close to the amplitude and fluctuations of the sea level. Therefore additional calculations deal with the dimensions of the gage column intake aperture at which previously known fluctuations in sea level, i.e., known periods

Card /2

ACCESSION NR: AT4001800

and range, would produce predetermined fluctuations of the water level in the gage column. The procedure involves subsequent readjustments in aperture parameters where the initially-selected values fail to provide calculated and actual wave height magnitudes which coincide. Orig. art. has: > 9 formulas.

ASSOCIATION: Morskoy gidrofizicheskiy institut AN SSSR (Institute of Marine Hydrophysics)

SUBMITTED: 00

ATD PRESS: 3047

ENCL: 00

SUB CODE: ES

NO REF SOV: 005

OTHER: 000

Card 1/2

L 42922-66 EWI(m)/ENP(t)/ETI IJP(c) JD/JT

ACC NR: AP6029056

SOURCE CODE: UR/0413/66/000/014/0082/0082

INVENTOR: Averchenko, P. A.; Alekseyenko, M. F.; Babakov, A. A.; Babitskaya, A. N.; Batrakov, V. P.; Bondarenko, A. L.; Gabuyev, G. Kh.; Yel'tsov, K. S.; Kulygin, G. V.; Lola, V. N.; Orekhov, G. N.; Pridantsev, M. V.; Sklyarov, P. I.; Smolyakov, V. F.; Soroko, L. N.; Solov'yev, L. L.; Frantsov, V. P.; Shamil', Yu. P.; Moshkevich, Ye. I.; Natanov, B. S.

ORG: none

TITLE: Stainless steel. Class 40, No. 183947.

SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 82

TOPIC TAGS: stainless steel, chromium titanium steel, molybdenum containing steel, nitrogen containing steel, titanium containing steel

ABSTRACT: This Author Certificate introduces a stainless steel containing chromium, molybdenum, and nitrogen. In order to improve weldability, the steel has the following composition: 0.08% C, up to 0.8% Mn, up to 0.8% Si, 15-18% Cr, 0.2-0.6% Mo, 0.04-0.15% N, 0.4-1.2% Ti, up to 0.035 S, and up to 0.030 P. [WW]

SUB CODE: 11/ SUBM DATE: 30Jan65/ APA PRESS: 2213

Cord 1/1

UDC: 669.14.018.8: 669.15'26-194

BONDARENKO, A.M., polkovnik, voyenny letchik pervogo klassa

Simulated combat flight at night. Vest.Vozd.Fl. no.6:40-42
Ja '60. (MIRA 13:7)
(Air warfare)

12
Photometric determination of boron in steel. I. O.
Martynchuk and A. M. Bondarenko. A. M. Bondarenko
The authors describe a method for the photometric determination of boron in steel. The method involves the decomposition of the steel sample with H_2SO_4 and the subsequent determination of boron in the resulting solution. The authors state that the method is simple and accurate, and that it can be used for the determination of boron in steel samples containing up to 0.01% boron. The authors also mention that the method is suitable for the determination of boron in steel samples containing up to 0.01% boron. The authors conclude that the method is a reliable and accurate method for the determination of boron in steel.

4-13d
M. Horch

CA

16

Refractometric determination of dry matter in vinasse concentrates. V. A. Smirnov and A. N. Bondarenko (Voronezh Chem.-Technol. Inst.). *Zavodskaya Lab.* 13, 941-4(1947).—The technique of this detn. with a Lowe-refractometer is described. M. Haseh

1. SMIRNOV, V. A.; BONDARENKO, A. N.
2. USSR (600)
4. Sulfites
7. Calculation of products from the manufacture of alcohol from sulfite liquors, Trudy Len. inst. pisch. prom., 1, 1949.
9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

Chemical Abstracts
May 25, 1954
Cellulose and Paper

3
③
✓ Utilization of sulfite liquor in the production of alcohol.
V. A. Smirnov and A. N. Bondarenko. *Trudy Leningrad. Tekhnol. Inst. Pishchev. Prom.* 1(X), 77-80(1949).—One cu. m. of sulfite liquor yields 5.86 l. of abs. EtOH. The loss of EtOH during the mash rectification process is about 5%. The normal steam consumption per dl. alc. is about 200 kg. Eitanuși Merdinger

10-12-54
md

CA

Effect of mineral admixtures on the determination of reducing sugar. V. A. Smirnov and A. N. Bondarenko (Leningrad Technol. Inst. Food Ind.). *Zh. Prikl. Khim.* (J. Applied Chem.) 23, 972-5 (1950).—The iodometric method is not affected by the presence of KCl, NaCl, K_2SO_4 , Na_2SO_4 , or $CaSO_4$. Fe^{2+} salts give low results owing to conversion to Fe^{3+} . Small aints. of NH_4 salts give high results, but as their concn. rises the effect becomes smaller and finally becomes neg.; the titration mixts. deposit small aints. of what appears to be NH_4 . $MgSO_4$ causes high results starting with 0.02 M concn., while $MgCl_2$ gives high results starting with 0.008 M concn. KH_2PO_4 has no effect, but at concn. above 0.036 M the results are low. Methods based on detn. after oxidation of sugar by CuO were tested; of these the ebullioscopic method suggested by Sizovkin (*Sbornik problemov tekhn. opytom.*, 2, 32 (1947)) which consists of direct titration of alk. Cu_2O in an ebullioscopic app. in the presence of ferrocyankide with methylene blue indicator, was found to give very accurate results. NH_4Cl , $CaSO_4$, and $MgSO_4$, when present in high concns., give, resp., somewhat high, low, and high results (error about 2% max.). G. M. Kosolapoff

L 44011-66 EWT(1)/EWP(e)/EWT(m)/1/EWP(1)/ETI/EWP(1) LIP(c) ID/WH
ACC NR: AP6026717 SOURCE CODE: UR/0181/66/008/008/2490/2492

AUTHOR: Bondarenko, A. N.; Kirovoshchekov, G. V.; Marennikov, S. I.; Pestryakov, Ye. V.; Savvinykh, G. A.

ORG: Institute of Physics of Semiconductors, SO AN SSSR, Novosibirsk (Institut fiziki poluprovodnikov SO AN SSSR)

TITLE: Excitation of ultrasonic oscillations in crystals under the effect of a ruby/laser beam

SOURCE: Fizika tverdogo tela, v. 8, no. 8, 1966, 2490-2492

TOPIC TAGS: ruby laser, laser emission, ultrasonic oscillation, KDP crystal, nonlinear optics

ABSTRACT: The authors describe briefly the conditions for the excitation of ultrasonic oscillations in a KH_2PO_4 crystal by the emission of a ruby laser. The crystal was 15 x 15 x 4.8 mm along the x, y, and z axes, respectively. Several experiments were performed to clarify the excitation mechanism of these oscillations. A design of the experimental set-up used is described and shown (Fig. 1). The Q-switched laser beam (rotating prism) ($\sim 10 \text{ Mw}$), passing through the glass plate (b) and lens (pl) with a focal length $F=210 \text{ mm}$, falls on the crystal (d) fixed on a revolving stand between two lead foil electrodes. A part of the emission, reflected from the plate (b),

Card 1/3

ACC NR: AP6026717

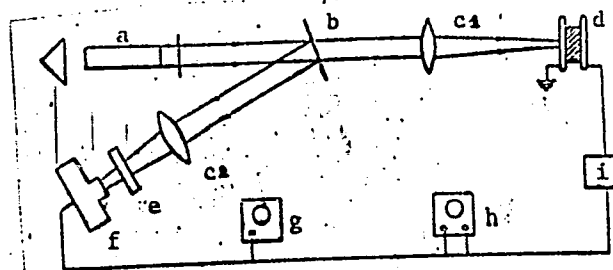


Fig. 1. Diagram of the experimental set-up

passes through the lens (c2) and several filters (e) and falls on the photomultiplier FEU-22 (f), the signal from which then starts the oscilloscope (h) (C1-8), recording the emf from the electrodes. The level of laser oscillation was controlled by the oscilloscope (g) (C1-4); the signal was amplified by the amplifier. Ultrasonic oscillations were also recorded when ADP, quartz, and PbZrTiO_3 crystals were irradiated with a ruby laser beam. The crystal oscillation amplitude decreased with an increase in laser radiation density at the free crystal surface. This change is possibly associated with increased signal attenuation due to local (at the focus) heating of a crystal or with a decrease in the absorption coefficient at higher laser radiation

Card 2/3

L 44011-56
ACC NR: AP6026717

densities. The effect of electrostriction appears small. The results of the experiment show that in order to determine the power of laser emission it is sufficient to measure the initial amplitude of the crystal oscillations, which is independent of the degree of focusing the laser beam on the surface of a piezocrystal covered with a (0.03 mm) lead foil with a high-reflectivity factor. In conclusion, the authors express their gratitude to V. N. Ishchenko, N. D. Lizunov, and M. L. Baybakov for useful discussions and for assistance in the experiments. Orig. art. has: 2 figures. [26]

SUB CODE: 20/ SUBM DATE: 17Feb66/ OTH REF: 001 ATO PRESS 5070

Card 3/3 LC

BONDARENKO, A. P.

B

**(Construction of Coal-Treatment Plants in the Don-
bas in 1949. (In Russian.) A. P. Bondarenko. Ugol
(Coal), Mar. 1950, p. 5-8.**

**Describes in detail the problems encountered and
measures taken for their solution in order to meet the
goal of the 5-year plan (1946-1950) for improvement
of coal quality. 10 new coal-treatment plants were
constructed. Details of construction are presented.**

ASS-SLA METALLURGICAL LITERATURE CLASSIFICATION

FROM DIVISION

SOURCE #

REVISION

LIST ONE TWO III

NO. OF

DATE

BY

APPROVED BY

REMARKS

BONDARENKO, A. P.

"USSR To Step Up Construction", Ugol', No. 3, 1950.

Translation W-12367, 28 Jul 1950

Chief, Main Admin. Donbass Mine Construction

BONDARENKO, A. P.

USSR/Geophysics - Earth Currents Jan/Feb 51
"Some Data on Origins of Earth Currents," A. P.
Bondarenko, Lvov Branch, Acad Sci Ukrainian SSR
"Iz Ak Nauk SSSR, Ser Geog i Geofiz" Vol XV,
No 1, pp 40-42

Outlines results of study of diurnal variations
of earth currents according to observations
processed in Jul, Aug 39 and in Sep 40 in region
of Kremenchug magnetic anomaly and in Pisarevko
(Ukraine). Compares results of harmonic analy-
sis of av diurnal variations of earth currents
with corr variations of elements of geomagnetic
field.

176T44

BONDARENKO, A. P.

USSR/Geophysics - Terrestrial Currents

21 Mar 53

"Connections of Terrestrial Currents With Geomagnetic Variations," A. P. Bondarenko, L'vov Affiliate, Acad Sci Ukr SSR

DAN SSSR, Vol 89, No 3, pp 443-446

Presents a new method for studying said connections, based on juxtaposition of the vertical projection of the rotor of electric field with derivative of the vertical component of geomagnetic variations. Geological structure and variable conductivity are accounted for in measurements. Presented by O. Yu. Shmidt 28 Jul 52.

272T34

3

✓150.37 : 350.384 3447
Electric Field Induced by Vertical Component
of Geomagnetic Variations.—A. P. Bondarcuko.
(C. R. Acad. Sci. U.S.S.R., 21st May 1958, Vol. 10,
No. 3, pp. 337-370. In Russian.) An expression is
derived for the horizontal electric field in the earth due
to a varying geomagnetic field, assuming regions of
unequal electrical conductivities. Graphs based on
published experimental determinations of the electric
field components and the geomagnetic field show typical
24-hour cycles and indicate the degree of correlation
between the electric and geomagnetic fields. See also
1412 of May.

And [Signature]

BONDARENKO, A.P.
USSR/Geophysics - Earth currents

FD-1788

Card 1/1

Pub 45-10/18

Author : Bondarenko, A. P.

Title : Analytic method of handling field observations during prospecting by the method of terrestrial currents

Periodical : Izv. AN SSSR, Ser. geofiz. 267-269, May-Jun 1955

Abstract : In recent years the Scientific-Research Institute of Geophysical and Geochemical Methods of Prospecting, Ministry of Petroleum Industry, has been conducting experimental prospecting operations with the aim of testing a new procedure for interpreting observations by way of the construction of maps showing the field strength of terrestrial currents. The author proposes an analytical method based upon the harmonic analysis of observed pulsations of the gradients. The author notes that he took part in the experimental works in Central Asia in 1948 studying the character of the variations observed in terrestrial currents. One reference: A. M. Alekseyev and M. N. Berdichevskiy, "Electrical prospecting by the method of terrestrial currents," Prikladnaya geofizika, No 8, 1952.

Institution: Institute of Geology of Useful Minerals, Academy of Sciences Ukraine

Submitted : March 15, 1954

BONDARENKO, A.P.

Principal aspects of the method of using terrestrial currents and
geomagnetic variations for geological surveys. Trudy Inst. geol.
nauk AN URSR. Ser. geofiz. no.1:166-169 '56. (MLRA 10:8)
(Terrestrial electricity) (Magnetism, Terrestrial)

ANDROS, I.P., inzh.; ASSONOV, V.A., kand. tekhn. nauk.; BERNSTEIN, S.M.,
 inzh.; BOKIY, B.V., prof.; BROVMAN, Ya.V., inzh. BONDARENKO, A.P.,
 inzh.; BUCHNEV, V.K., kand. tekhn. nauk; VERESKUNOV, G.P., kand.
 tekhn. nauk; VOLKOV, A.F., inzh.; GELESKUL, M.N., kand. tekhn. nauk;
 GORODNICHIEV, V.M., inzh.; DEMKENT'YEV, A.Ya., inzh.; DOKUCHAYEV, M.M.,
 inzh.; DUBNOV, L.V., kand. tekhn. nauk; YEFIFANTSEV, Ya.K., kand.
 tekhn. nauk.; YERASHKO, I.S., inzh.; ZHEKIDANOV, S.A., kand. tekhn.
 nauk; ZIL'BERBROD, A.F., inzh.; ZINGHENKO, E.M., inzh.; ZORI, A.S.,
 inzh.; KAPLAN, L.B., inzh.; KATSAUROV, I.N., dots.; KITAYSKIY, E.F.,
 inzh.; KRAVTSOV, Ye.P., inzh.; KRIVOROG, S.A., inzh.; KRINITSKIY,
 L.M., kand. tekhn. nauk; LITVIN, A.Z., inzh.; MALEVICH, N.A.,
 kand. tekhn. nauk; MAN'KOVSKIY, G.I., doktor tekhn. nauk; MATKOVSKIY,
 A.I., inzh.; MINDELI, B.O., kand. tekhn. nauk; NAZAROV, P.P., kand.
 tekhn. nauk; NASONOV, I.D., kand. tekhn. nauk; NEYYENBURG, V.Ye.,
 kand. tekhn. nauk; POKROVSKIY, G.I., prof., doktor tekhn. nauk;
 PROYAVKIN, E.T., kand. tekhn. nauk; ROZENBAUM, inzh.; ROSSI, B.D.,
 kand. tekhn. nauk; SEMEYVSKIY, V.N., doktor tekhn. nauk; SKIRGELLO,
 O.B., inzh.; SUKRUT, A.A., inzh.; SUKHANOV, A.F., prof., doktor
 tekhn. nauk; TARANOV, P.Ya., kand. tekhn. nauk; TOKAROVSKIY, D.I.,
 inzh.; TRUPAK, N.G., prof., doktor tekhn. nauk; FEDOROV, S.A., prof.,
 doktor tekhn. nauk; FEDYUKIN, V.A., inzh.; KHOKHLOVKIN, D.M., inzh.;
 KHRABROV, M.I., kand. tekhn. nauk; CHEKAREV, V.A., inzh.; CHERNAVKIN,
 N.N., inzh.; SHREYBER, B.P., kand. tekhn. nauk; EPOV, B.A., kand.
 tekhn. nauk; YAKUSHIN, N.P., kand. tekhn. nauk; YANCHUR, A.M., inzh.;
 YAKHONTOV, A.D., inzh.; POKROVSKIY, N.M., otvetstvennyy red.;
 KAPLUN, Ya.G. [deceased], red.; MONIN, G.I., red.; SAVITSKIY, V.T.,
 (Continued on next card)

ANDROS, I.P.---(continued) Card 2.

red.; SANOVICH, P.O., red.; VOLOVICH, M.Z., inzh., red.; GORITSKIY, A.V., inzh., red.; POLUYANOV, V.A., inzh., red.; PADEYEV, B.I., inzh., red.; CHECHKOV, L.V., red. izd-va; PROZOROVSKAYA, V.L., tekhn. red.; NADEINSKAYA, A.A., tekhn. red.

[Mining; an encyclopaedic handbook] Gornoe delo; entsiklopedicheskiy spravochnik, Glav. red. A.M. Terpigorev, Moskva, Gos. nauchno-tekhnicheskoe izd-vo lit-ry po ugol'noi promyshl. Vol. 4. [Mining and timbering] Provedenie i kreplenie gornykh vyrabotok. Red. kollegiya: tomsk. N.M. Pokrovskiy... 1958. 464 p. (MIRA 11:7)

(Mine timbering) (Mining engineering)

SOV/169-59-4-4249

Translation from: Referativnyy zhurnal, Geofizika, 1959, Nr 4, p 146 (USSR)

AUTHOR: Bondarenko, A.P.

TITLE: On the Character of Earth Current Pulsations

PERIODICAL: Mezhdunar. geofiz. god., Inform. byul., 1958, Nr 1, pp 97 - 103
(Engl. Res.)

ABSTRACT: Preliminary results are expounded of the statistical processing of photographic records of earth current pulsations made with a time base of 30 mm/min by the Uzhgorod station for the period from July to November 1957. The length of the periods and the number of fluctuations for each hour interval were used as the basic pulsation characteristics. The dependence of the aforementioned characteristics on the daytime is discussed. It was established that the maximum number of fluctuations with periods of 3 to 10 sec occurs at midnight. The slower pulsations appear from 2 to 17 hours universal time. Fluctuations with periods of

Card 1/2

On the Character of Earth Current Pulsations SOV/169-59-4-4249

10 to 20 sec are predominant among the slower pulsations and account for approximately 50% of the overall mean daily number of pulses.

Author's résumé



Card 2/2

SUBBOTIN, S.I.; BONDARENKO, A.P.; KRUGLYAKOVA, G.I. [Kruhliakova, H.I.];
KLUSHIN, V.I.; NAUMCHIK, Yu.L.; PETKEVICH, G. I. [Petkevych, H.I.]

Progress in geophysical studies of western regions of the
Ukrainian S.S.R. during the Soviet regime. Pratsi Inst.
geol. kor.kop. AN URSR 1:118-148 '59. (MIRA 14:6)
(Ukraine—Prospecting—Geophysical data)

BONDARENKO, A.P.

Local changes in the diurnal variation characteristics of earth currents. Meshdunar. geofiz.. god [Kiev] no.2:93-102 '60.

(MIRA 14:1)

1. Institute of geology of Ore Minerals of the Academy of Sciences of the Ukrainian S.S.R.

(Earth currents)

84162

S/021/60/000/002/003/010
A158/A029

3.9000 (1041, 1109, 1327)

AUTHOR: ~~Pondarenko. A.P.~~

TITLE: On the Principle of Geophysical Explorations by the Method of Investigation of the Earth's Electromagnetic Field

PERIODICAL: Dopovidi Akademiyi nauk Ukrayins'koyi Radyans'koyi Sotsialistichnoyi Respubliki, 1960, No. 2, pp. 159 - 163

TEXT: Furthering the studies by A.N. Tikhonov and D.N. Shakhshvarov (Ref. 1) and L. Cagniard (Ref. 2), the author investigated the dependence of the ratio of the amplitudes of the horizontal components of the earth's electromagnetic field on the geoelectric characteristics of a two- and three-layer section, using the known formulas for calculating the resistance of conductors in the skin effect. Using the initial equation

$$R = \left(\frac{1}{Z} \right) = - \frac{H}{E}, \quad (1)$$

where Z is the impedance of commonly used value, the author determines the value of amplitudes of complete horizontal components of the magnetic field H, and that of the electric field E (2 and 3), where σ is the specific electric conductivity, μ is the magnetic permeability, ω is the angular frequency of oscillations of the

Card 1/3

84162

S/021/60/000/002/003/010
A158/A029

On the Principle of Geophysical Explorations by the Method of Investigation of the Earth's Electromagnetic Field

electromagnetic field, C_1 and C_2 are unknown constant values. The final formula for determining the dependence of R on the parameters of geoelectric cross section having any number of layers, is formulated as follows:

$$R = - \frac{H(0)}{E(0)} = - \frac{\sigma_1}{\tau_1} \frac{A}{B}. \quad (8)$$

At a frequency of oscillation of the electromagnetic field $f \leq 0.05$ c/s the value of the relation (1) is numerically equal to the longitudinal electrical conductivity of the upper layer imposed on a non-conducting base (the crystalline foundation of the earth's crust). The possibilities of carrying out electromagnetic grading by comparing the amplitudes of the derivative in respect to the time of the vertical component of the geomagnetic field with the horizontal component of the gradient of the potential of earth currents are considered in the text. Methods of measurements which the author will employ for continuing this study, as well as the results thereof, will be published in a separate article. There are 3 references: 2 Soviet and 1 English.

ASSOCIATION: Instytut heologiyi korysnykh kopalyn AN UkrR3R (Institute of Geology of Useful Minerals of the AS UkrSSR)

Card 2/3

84162

S/021/60/000/002/003/010
A158/A029

On the Principle of Geophysical Explorations by the Method of Investigation of
the Earth's Electromagnetic Field

PRESENTED: by V.B. Porfir'yev, Academician, AS UkrSSR

SUBMITTED: April 27, 1959

Card 3/3

31045
S/609/61/000/004/006/007
D207/D304

3.9410

AUTHOR: Bondarenko, A. P.

TITLE: Diurnal variation of perturbations of earth current fluctuations

SOURCE: Akademiya nauk Ukrayins'koyi RSR. Organizatsionnyy komitet po provedeniyu Mezhdunarodnogo geofizicheskogo goda. Mezhdunarodnyy geofizicheskyy god; informatsionnyy byulleten'. no. 4, 1961, 78-84

TEXT: The author reports observations and interpretation of earth (telluric) current fluctuations recorded during I.G.Y. at Korets and Morshin stations of the Institut geologii poleznykh iskopayemykh AN USSR (Institute of Mineral Geology, AS UkrSSR). The Korets station (I. L. Dikiy in charge) is located at the western edge of the Ukrainian crystalline rock mass, at 215 m above sea level. The Morshin station (R. I. Kutas in charge) lies 2.5 km south-west of the resort at Morshin; the station is 360 m above sea level. Earth currents were detected using two ШПТ (ShRPS) wires in the form of

Card 1/4

Diurnal variation of ...

31045
S/609/61/000/004/006/007
D207/D304

a cross (225 m long in Korets, 400 m in Morshin). Th wires were oriented along east-west and north-south directions and placed in trenches 50-70 cm deep; they were grounded by Pb plates. Suitable capacitors of МГБП(MGBP) type, as well as resistors, were included in measuring circuits. Galvanometers were used to measure earth currents and the readings were recorded on seismic sheets moving at the rate of 30 mm/min. The sensitivity of the apparatus at Morshin was much greater than that at Korets or at any other medium-latitude station in the Soviet Union. Mean amplitudes of earth-current fluctuations were nearly 14 times greater at Korets than at Morshin. The vector of fluctuations was polarized elliptically at both stations; the azimuth of the polarization axis was within the range 40-50°. The durations of fluctuations of sinusoidal type (PC_1) and of irregular type (PC_2) were recorded; both types of fluctuations had periods of 15-25 sec. The following quantity was taken as a measure of perturbation of PC_1 and PC_2 fluctuations:

Card 2/4

Diurnal variation of ...

S/609/61³¹⁰⁴⁵/000/004/006/007
D207/D304

$$\tau_i = \frac{1}{k} \sum_k \Delta P_{i,k}$$

where k is the number of days with the i-th one-hour interval (i denotes the intervals 00.00 - 01.00, 01.00 - 02.00, ..., 23.00 - 24.00 hours), ΔP_i is the duration of perturbation during the i-th interval. Consequently τ_i represents the mean duration of perturbation per hour. Analysis of records obtained between January 1, 1958, and December 31, 1959, showed that the diurnal variations can be represented by an oscillation with a period of 24 hours and two weaker oscillations with periods of 12 and 8 hours; a fourth oscillation with a period of 6 hours was only 2% of the total variation. The amplitude of the diurnal variation was twice as large in summer as in winter. The recorded diurnal variations were qualitatively similar to ionospheric variations. It is suggested that the sinusoidal perturbations (PC_1) are related to processes occur-

Card 3/4

31045

Diurnal variation of ...

S/609/61/000/004/006/007
D207/D304

ring in the E-region of the ionosphere, while the irregular perturbations (PC_2) are related to the F_2 -region variations. The primary cause of PC_1 perturbations and of about 70% of PC_2 is ultraviolet radiation of the sun which disturbs the ionosphere, producing in turn earth-current perturbations. Acknowledgments are made to F. I. Sedova, V. R. Sidorenko, B. I. Uster and V. F. Polyakova for their help in analysis of earth-current records. There are 2 figures and 2 tables. 4

ASSOCIATION: Institut geologii poleznykh iskopayemykh AN USSR
(Institute of Mineral Geology, AS UkrSSR)

Card 4/4

BONDARENKO, A.P., inzh.

High-strength silicate supports. Ugol.prom. no.5:17-19 S-0
'62. (MIRA 15:11)

1. Ukrainskiy nauchno-issledovatel'skiy institut organizatsii i
mekhanizatsii shakhtnogo stroitel'stva.
(Mine timbering)

BONDARENKO, A.P., inzh.

Cementless lime concrete for precast mine supports. Shakht.stroi.
8 no.11:9-11 N '64. (MIRA 18:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut organizatsii i
mekhanizatsii shakhtnogo stroitel'stva.

BONDARENKO, A.P. inzh.

Characteristics of making cementless lime concrete linings. Trudy
(MIRA 18:2)
VNIOMSHSa no.15:181-188 '64.

BONDARENKO, A. P.

Bondarenko, A. P. and Volochkova, Z. F. "Results of tests of the effect of manure on the yield of field crops", Sbornik nauch, rabot (Rost. gos. selekts. stantsiya), Issue 1, 1948, p. 3-22.

SO: U-2833, 12 Feb. 53, (Letopis' Zhurnal 'nykh Staley, No. 2, 1949).

BONDARENKO, A. P.

Bonderenko, A. P. and Volochkova, Z. F. "Experience from composting manure with phosphorite", Sbornik nauch, rabot (Rost. gos. selekts. stantsiya), Issue 1, 1948, p. 23-34, - Bibliog: 5 items.

SO: U-2838, 12 Feb. 53, (Letopis' Zhurnal 'nykh Statey, No. 2, 1949).

BONDARENKO, A. P.

Bondarenko, A. P. and Volochkova, Z. F. "Experience in using clay-gypsum mixtures to improve solonetz soils in Rostov Oblast", Sbornik nauch. rabot (Rost. gos. selekts. stantsiya) Issue 1, 1948, p. 35-51.

SO: U-2888, 12 Feb. 53, (Letopis' Zhurnal 'nykh Statey, No. 2, 1949).

BONDARENKO, A. P.

Bondarenko, A. P. "The action of storms on agricultural crops in the Cis-Caucasian carbonate chernozem", Sbornik nauch. rabot (Rost. gos. selekts. stantsiya), Issue 1, 1948, p. 53-113.

SO: U-2888, 12 Feb. 53, (Letopis' Zhurnal 'nykh Statey, No. 2, 1949).

Bondarenko, A. P.

Cand. Agricult Sci

Dissertation: "Effect of Boron on Agricultural Plants Under Conditions of the
Carbonate Black Soil in the Area North of the Caucasus."

24 May 49

All-Union Sci Res Inst of Fertilizers, Agricultural Engineers and Soil Science
(imeni K.K. Gedroyets)

SO Vecheryaya Moskva
Sum 71

VOLOCHKOVA, Zinaida Fedorovna; BONDARENKO, Aleksandr Pavlovich; YAROSLAVSKAYA,
N.L., redaktor; ESSAULOVA, M.N., tekhnicheskii redaktor

[How to use fertilizers for grain crops] Kak primeniat' udobreniia
pod zernovye kul'tury. Rostov-na-Donu, Rostovskoe kn-vo, 1955. 40 p.
(Fertilizers and manures) (MLRA 10:1)

TSERMAN, M.D.; FENIK, I.P.; BONDARENKO, A.P.

Combined processing of beet and raw cane sugar. Sakh. prom. 32
no.8:35-38 Ag '58. (MIRA 11:9)

1.Sakhkombinat "Kreshchatik."
(Sugar manufacture)

BONDARENKO, A. P.

Diurnal distribution of disturbances in the pulsations of earth currents. Mezhdunar. geofiz. god. no.4:78-84 '61. (MIRA 14:10)

1. Institut of Geology of Ore Minerals of the Academy of Sciences of the Ukrainian S.S.R.
(Earth currents)